Pressure-based double dosing system

Determining the surface energy of solids quickly and easily

Understanding Interfaces

With the pressure-based double dosing system DDS-P two liquid drops can be dosed onto a solid sample simultaneously. Together with an optical contact angle measuring and contour analysis system of the OCA series the determination of the surface energy of solids is exceptionally fast and easy.

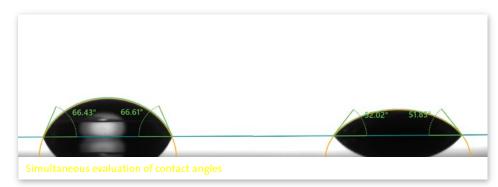
The DDS-P is primarily designed for the test liquids water and diiodomethane, but other liquids can be used as well. The liquid reservoirs hold enough liquid for up to 3000 individual measurements.

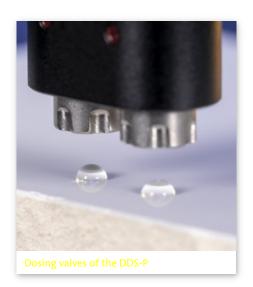
The OCA software uses the DDS-P to dose two drops, automatically measures their contact angles and determines the surface energy — all **with just one click**. The entire process from starting the measurement to receiving the result takes **less than a second**.

Advantages & main applications of the DDS-P

- fast analysis of the surface energy of solids
- objective and user-independent results
- quality assurance of coatings, surface treatments and other production processes
- surface characterisation in research and development departments with high sample throughput rates
- evaluation of surface cleaning processes







Technical data	
Typical test liquids	water and diiodomethane
Typical drop size	≅ 1 µl
Drop size accuracy	± 0.1 μl
Cartridge volume	3 ml
Number of measurements per filling	up to 3000
Dimensions (L x W x H)	90 mm x 45 mm x 320 mm
Weight	1 kg
Power supply	powered by OCA system